

Notice of Allowability

Application No.

10/675,759

Examiner

Ryan P. Fiegle

Applicant(s)

BAXTER, MICHAEL A.

Art Unit

2183

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/9/06.
2. ☒ The allowed claim(s) is/are 1-14, 16-25, 27-29, 31, 35-38 and 40-44.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Justin Liu on 5/30/06.

2. **In addition to the applicant's amendments filed 5/9/06**, amend the claims as follows:

Replace "duplexed" with "doubled " in claim 1.

Replace "duplexed" with "doubled " in claim 9.

Replace "duplexed" with "doubled " in claim 24.

Adjoin the following to the end of claim 28: "wherein the DUPLEX bit mask sub-mode causes each bit of a half-word literal field to be doubled into two adjacent bits in a full-length data word."

In claim 35, before the last limitation that begins, "wherein the reduced instruction set ..." insert the following: "wherein one mode of the immediate instruction causes each bit of a half-word literal field to be doubled into two adjacent bits in a full-length data word; and".

3. Amend the specification as follows:

In paragraph 0104, place "or doubling" after the phrase "known as duplexing".

Allowable Subject Matter

4. Claims 1-14, 16-25, 27-29, 31, 35-38 and 40-44 are allowed.

Amended independent claims 1, 9, 24, 28 and 35 now contain a limitation referring to a mode for the immediate instruction that causes each bit of the half-word literal field to be doubled into two adjacent bits in the full-length data word.

No prior art could be found that teaches this limitation.

Texas Instruments teaches an instruction named XPND4, which takes the least significant 4 bits of an operand and duplicates each bit to an entire byte of a 32-bit output register.

The examiner could find no reasonable interpretation or obvious variation of this instruction to read on the limitation as presently amended.

Further, the examiner would like to point out that by amending the claims to recite the word "doubled" in place of the word "duplexed" in the claims does not change the function of the sub-mode. Rather, duplexing is a term known by a different definition in the art, and therefore has been changed in the claims to be more comprehensible. Therefore, as addressed by the amendment to the specification, duplexing and doubling may be referred to as the same function in this particular application.

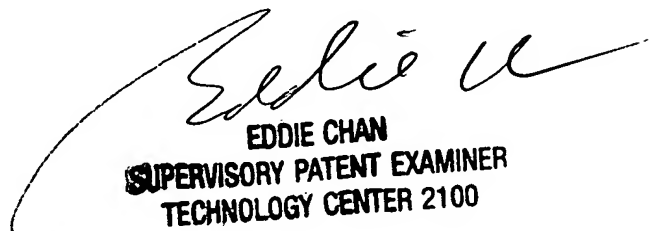
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan P. Fiegler whose telephone number is 571-272-5534. The examiner can normally be reached on M-F 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Chan can be reached on 571-272-4162. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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